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The following bibliography comprises references to the general literature. Care has been taken to omit citations to the more specialized literature on standardization of specific commodities.

Agnew, Paul Gough:

The national industrial standardization movement. Review of scientific instruments, Dec. 1930, v. 1: 705–710.

Discusses stages of development by individual firms, societies, and associations, on national and international scale.

The rôle of the trade association in standardization. American standards association. Bulletin, June, 1930, no. 50: 3–6.

Technical standards for consumer goods: A "five-year plan"? American standards association. Bulletin, July, 1931, p. 15–18.

American institute of weights and measures. Measurement units and standards; devoted to the practical art of measurement in world industry, manufacture, and commerce. Spring edition. New York, The Institute, 1931. 32 p.

American management association. (Committee on the stabilization of industry for the prevention of unemployment.) Less unemployment through stabilization of operations. A report to Franklin D. Roosevelt. New York, American management association, 1931. 96 p.

American mining congress holds successful group conferences. Mining congress journal, Jan. 1931, v. 17: 26–31. TN5.A7, v. 17.

"Standards conferences": p. 30.

American society for testing materials:

American society for testing materials reports progress in standardization. 1930 an active year for society—work of its committees reviewed. U. S. Bureau of standards. Commercial standards monthly, Mar. 1931, v. 7: 290–291. HD62.U3, v. 7.

Bulletin, 1930–1931. Philadelphia, American society for testing materials, 1930–1931. TA401.A68.

Index to American society for testing materials standards and tentative standards, as of September, 1930. Philadelphia, American society for testing materials, 1930. 113 p.

Proceedings of the thirty-third annual meeting, held at Altantic City, N. J., June 23–27, 1930. Philadelphia, American society for testing materials, 1930. 2 v. TA401.A5, 1930.

Tentative revisions of standards are discussed in vol. 1.

Report of Committee E–10 on standards. (In its Proceedings, 1930. Philadelphia, 1930. v. 1, p. 955–962.) TA401.A5, 1930, v. 1.

Deals with the work of the committee, the promotion and expansion of standardization activities, annual review of the American society for testing materials standardization activities, consideration of proposed new tentative standards, etc.

American society for testing materials—Continued.

A review of activities during 1930. Its Bulletin, Jan. 30, 1931, no. 48: 1–3, 6–10. TA401.A68, no. 48.

Scope of current standardization projects reviewed. U. S. Bureau of standards. Commercial standards monthly, Aug. 1931, v. 8: 41. HD62.U3, v. 8.

Standards. 1930 edition. Philadelphia, American society for testing materials, 1930. 2 v. TA401.A64, 1930.

Tentative standards, 1930 edition. Philadelphia, American society for testing materials, 1930. 864 p. TA401.A65, 1930.

Contains 155 tentative specifications, methods of test, definitions of terms, and recommended practices, 28 relating to metals and 127 to nonmetallic materials and products.

Yearbook, 1931. Philadelphia, American society for testing materials, 1931. 340 p. TA401.A6, 1931.

American standards association:

American standards yearbook, 1931. New York, American standards association, 1931. 102 p. TA1.A282, 1931.

Bulletin. New York, American standards association, 1930.

Started publication June, 1930.

Angus-Butterworth, L. M. Rationalisation. Chemical age (London). Nov. 8, 1930, v. 23: 430. TP1.C33, v. 23.

Association belge de standardisation: scope and function of standardization program in Belgium reviewed. U. S. Bureau of standards. Commercial standards monthly, Aug. 1931, v. 8: 48–49. HD62.U3, v. 8.

Backus, H. A. Specifications and materials control. (In American society for testing materials. Proceedings, 1930. Philadelphia, 1930. v. 2, p. 109–118.) Discussion: p. 200–206. TA401.A5, 1930, v. 2.

Barclay, R. H. Standardization in transport of electrical energy. Development of standards in the electrical field made possible through the cooperative efforts of the industry. U. S. Bureau of standards. Commercial standards monthly, Aug. 1931, v. 8: 48–49. HD62.U3, v. 8.

Article written by William McClellan and R. H. Barclay.

Bauer, Otto. Kapitalismus und Sozialismus nach dem Weltkrieg. I. Band. Rationalisierung- Fehlrationalisierung. Wein, Weiner Volksbuchhandlung, 1931. Reviewed in Europäische Revue, June, 1931, v. 7: 471–475. AP30.E8, v. 7.

Beckmann, Friedrich. Standardisierung als genossenschaftliche Erzeugungs und Absatzmethode. Halberstadt, Verlag H. Meyer's Buchdruckerei, 1930. 24 p. (Genossenschaft, 7.)

Béracha, Sammy. Rationalisation et révolution. Paris, Valois, 1930. 247 p.

Bergmann, M. Bilanz der Rationalisierung. Gewerkschafts-Archiv (Jena), Sept. 1930, v. 13: 152–157.

Bilanz der Rationalisierung. Magazin der Wirtschaft, July 18, 1930, v. 6: 1343–1346. HG17.P6, v. 6.

Boggs, Charles R. The performance type of specifications. Relative merits of performance and material specifications for rubber insulation. U. S. Bureau of standards. Commercial standards monthly, Sept. 1931, v. 8: 83. HD62.U3, v. 8.

Bowers, Edison Louis. Economics for engineers, by Edison L. Bowers and R. Henry Rowntree. 1st ed. New York and London, McGraw-Hill book co., (Inc.), 1931. viii, 490 p. HB171.5.B693.

"Quantity production and standardization": p. 63–64.

Bowie, James Alexander. Rationalization . . . London, New York [etc.] Sir I. Pitman & sons, ltd., 1931. 36 p. HD31.B7.

"Reprinted from the Times Imperial and foreign trade and engineering supplement, July–September, 1930."

Bramesfeld, E. Das Bedaux–Prinzip. Betriebswirtschaft, Dec. 1930, v. 23: 353–361.

Bremner, D. A. Points and problems for the engineering industry. Electrical review (London), Feb. 6, 1931, v. 108: 229–231. TK1.E44, v. 108.

Touches upon the question of rationalization.

Breyer, Ralph Frederick. Commodity marketing; the marketing of a number of selected nonagricultural products and public utility services. New York and London, McGraw-Hill book co., 1931. viii, 477 p. HF5415.B65.

See index under Standardization.

"The list of products covered embraces minerals, foodstuffs, nonmechanical manufactures other than foodstuffs, mechanical manufactures and public utility services."—Introd.

British engineering standards association, London:

[Reports]. London, 1930–31.

Reports deal with British standard specifications for various articles.

Standardization specifications. Electrical review (London), Jan. 2, 1931, v. 108: 39. TK1.E44, v. 44, v. 108.

Notes relating to some recent specifications of the association.

Brooks, H. B. A Simple time meter. National bureau of standards constructs apparatus for integrating detached time intervals. U. S. Bureau of standards. Commercial standards monthly. Aug. 1931, v. 8, no. 2: 49–50. HD62.U3, v. 8.

Budnevich, Dan G.:

The Russian program for standardization and elimination of waste. American standards association. Bulletin, June, 1931, p. 7–12.

[Standardization and socialistic progress. Text in Russian]. Planovoe khoziaĭstvo, May, 1930, v. 6: 242–258.

A discussion of standardization and what it has done for Russia.

Builders on rationalisation. Economist (London), Oct. 11, 1930, v. 111: 659. HG11.E2, v. 111.

The Building industry council of review, on which are represented employers, operatives, building materials manufacturers and suppliers, architects and surveyors has issued a report embodying the first results of an inquiry into the possibility of introducing rationalization into the building industry.

Bureau of industrial rationalisation in Japan. Industrial and labour information, Aug. 11, 1930, v. 35: 206. HD4811.I62, v. 35.

In accordance with the recommendation of a temporary commission for the investigation of industrial problems, set up in Japan in January, 1929, under the chairmanship of the Prime minister, a temporary bureau of industrial rationalization was established in the Department of commerce and industry on June 2, 1930.

Burgess, George Kimball:

Internationale Vereinbarungen über Standardisierung. Internationale Wirtschaft, July, 1930, v. 7: 298–301.

The National Bureau of Standards. The Congress of the United States has organized the bureau for the benefit of the Government and the Nation; scientific and technical divisions outlined. U. S. Bureau of standards. Commercial standards monthly, Dec. 1930, v. 7: 167–170. HD62.U3, v. 7.

Burkard, Maurice. Étude sur la normalisation [in der Industrie, namenthl. Deutschl. und Frankreichs]. Société industrielle de Mulhouse. Bulletin, Mar. 1931, v. 97: 144–159. T2.S75, v. 97.

Butler, H. B. Rationalisierungsprobleme in den Vereinigten Staaten. Soziale Praxis, May 25, June 18, 1931, v. 40: 690–696; 810–816. H5.S7, v. 40.

Butterworth, William. Methods of mass production. Testing and inspection of purchased materials facilitated through use of standard specifications. U. S. Bureau of standards. Commercial standards monthly, June, 1931, v. 7: 375. HD62.U3, v. 7.

Canadian engineering standards association. Year book, 1926–1929. Ottawa, Canadian engineering standards association, 1927–30. 4 v. TA368.C28.

Cannon, John Quayle. Standards and specifications for nonmetallic minerals and their products. April, 1930. Prepared by John Q. Cannon, jr., under the direction of A. S. McAllister, chief of the Division of specifications. Washington, U. S. Govt. print. off., 1930. ix, 680 p. (B. s. Miscellaneous publication, no. 110.) TN145.C3.

Carlton, Frank Tracy. Economics. Boston, New York etc. D. C. Heath and company ['1931] ix, 371 p. (Economics and business series). HB171.5.C28.

See index under Standardization.

Chamber of commerce of the United States of America. Agricultural service. Agricultural opportunities in quality production. Washington, D. C., 1930. 20 p. S571.C5.

Autographed from type-written copy.
"Foreword" signed: Wm. Harper Dean, manager. D. L. James, assistant manager.
Includes discussion of Federal and state interest in the subject of standardization.

Chamberlin, William Henry. The soviet planned economic order. Boston, Mass., World peace foundation, 1931. vii, 258 p. [World peace foundation publications]. HC335.C45.

The advantages of rationalization of industry: p. 172.

Clark, Wallace:

American management in Europe. Mechanical engineering, Dec. 1930, v. 52: 1051–1058. TJ1.A72, v. 52.

Organizing for change in European industries. Taylor society. Bulletin, June, 1930, v. 15: 189–192. T58.A2T3, v. 15.

Clauss, Walter. Der geistige Hintergrund der Rationalisierung. Sozialismus und Rationalisierung. Volkswirte, May 2, 1930, v. 29: 176–182.

Coming of age. Studies in South African citizenship and politics. By E. H. Brooks [and others.] Cape Town, Maskew Miller, limited, 1930. 439 p. T732.C6.

Rationalization: p. 209–210.

The need for a bureau of standards: p. 228.

Comité de normalisation de la mécanique: mise à l'enquête de projets de normalisation. Revue générale de l'électricité, Oct. 11, Nov. 15, Dec. 13, 1930, v. 28: 553–554; 763; 922; Jan. 31, Feb. 7, Mar. 28, Apr. 11, June 6, 20, 1931, v. 29: 162; 201–202; 482; 569–570; 890; 971. TK2.R35, v. 28–29.

Committee standardization activities. American society for testing materials. Bulletin, July 31, 1931, no. 51: 9. TA401.A68, no. 51.

Conference on standardization, London, 1930. Report of the conference on standardization (including resolutions adopted by the Imperial conference). London, H. M. Stationery off., 1930. 18 p. ([Gt. Brit. Parliament. Papers by command] Cmd. 3716) HD62.C6 1930.

At head of title: Imperial conference, 1930.
W. R. Smith, chairman.

Cooper, George A.:

Coordinating Standardization Work With the Government Program. Public utility purchasing. Sept. 1929, v. 1: 346–368.

Putting standards to work for the utility company. Public utility purchasing. Nov. 1929, v. 1, no. 10, pp. 305–329.

Recent economic effects of simplified practice. Washington, D. C., 1930. Mimeographed.

Copies may be had upon application to the Bureau of Standards.
Reviewed in U. S. Bureau of Standards commercial standards monthly, Nov. 1930, v. 7: 141. HD62.U3, v. 141.

Simplifying equipment saves millions yearly. Electrical world, Jan. 24, 1931, v. 97: 185–187. TK1.E5, v. 97.

Simplified practice valuable aid in purchasing. U. S. Bureau of standards. Commercial standards monthly, Jan. 1931, v. 7: 219. HD62.U3, v. 7.

Underground overhead: opportunities for saving by the adoption of simplified practice. Electric railway journal, June, 1930, v. 74: 323–325. TF701.S65, v. 74.

Couvé, Die Rationalisierung im neuesten Schriftum. Beamten Jahrbuch, July 1930, v. 17: 383–391.

Current activities of American marine standards committee. Committee reviews status of pending proposals for standardization. U. S. Bureau of standards. Commercial standards monthly, Nov. 1930, v. 7: 139. HD62.U3, v. 7.

"Current activities of the American standards association." Published in each issue of the U. S. Bureau of standards. Commercial standards monthly. HD62.U3.

Czechoslovak standards association, The. Industrial and labour information, Aug. 11, 1930, v. 35: 206. HD4811.I62, v. 35.

Danger point in rationalisation, The. Statist (London), Jan. 31, 1931, v. 117: 166–167. HG11.S8, v. 117.

Davis, Theodore Lawrence. Office administration, by T. Lawrence Davis in collaboration with Graydon Stetson. New York, Alexander Hamilton institute, 1930. 2 p. l., vii–xix, 339 p. (Modern business; a series of texts prepared as part of the modern business course and service . . . Alexander Hamilton institute). HF5547.D35.

See index under Standard practice; Standardization.

Décret instituant un Comité supérieur de normalisation [in Frankreich; Vorgeschichte und Text]. Revue général de l'électricité, July 5, 1930, v. 28: 37–39. TK2.R35, v. 28.

Dennison, Henry Sturgis. Organization engineering. 1st ed. New York and London, McGraw-Hill book co. (inc.), 1931. viii, 204 p. T58.D4.

Specifications: p. 152–155.

Dessauer. Ursachen und Wirkungen der Rationalisierung in der gegenwärtigen Wirtschaft. Rundschau für Kommunalbeamte, Jan. 3, 1931, v. 37: 8–10.

Detwiler, Samuel B. American and foreign standardization on a national basis. Purposes and scope of national bodies in 21 countries reviewed. U. S. Bureau of standards. Commercial standards monthly, Mar. 1931, v. 7: 294–298. HD62.U3, v. 7.

Deutscher Normenausschuss. DIN Normblattverzeichnis. Stand der Normung Frühjahr, 1931. Berlin, Beuth–Verlag, 1931. 306 p.

Devinat, Paul. Die Arbeitsbedingungen in einem rationalisierten Betrieb. Internationale Rundschau der Arbeit, Feb.–Mar., 1930, v. 8: 101–121; 228–247.

Economic significance of materials specifications. Iron age, May 28, 1931, v. 127: 1761. T1.I7, v. 127.

Comments upon a joint session of the American society for testing materials and the western society of engineers to be held June 25, 1931 in Chicago, Ill., to consider the question of specifications.

Economic significance of specifications. American society for testing materials. Bulletin, Apr. 30, 1931, no. 50: 6. TA401.A6S, no. 50.

Edwards, Alice L. Discrimination in purchasing. American Home Economics associations working for significant information on household commodities. U. S. Bureau of standards. Commercial standards monthly, July, 1930, 7: 18–19. HD62.U3, v. 7.

Eidmann, Frank Lewis. Economic control of engineering and manufacturing. 1st ed. New York and London, McGraw-Hill book co. (inc.), 1931. xi, 402 p. T56.E5.

"Economic aspects of standardization and simplification": ch. 15.

Ely, Edwin W.:
Chairmen of standing committees for simplified practice recommendations convene. U. S. Bureau of standards. Commercial standards monthly, Jan. 1931, v. 7: 197–198. HD62.U3, v. 7.

Commercial simplification. Elimination of needless variety essential to efficient management. U. S. Bureau of standards. Commercial standards monthly, May, 1931, v. 7: 339. HD62.U3, v. 7.

Simplified practice—a clearing house. Simplification as a means of clearing away nonessentials; path then clear for standardization and improvement of grades, quality, and performance of types and varieties. U. S. Bureau of standards. Commercial standards monthly, Nov. 1930, v. 7: 134–136. HD62.U3, v. 7.

Simplified practice aids industry. Manufacturers record, v. 98, Sept. 18, 1930: 46–47. TS1.M3, v. 98.

Enström, A. Research in industry and rationalisation. Engineer (London), June 5, 1931, v. 151: 632–633. TA1.E5, v. 151.

Abstract in Engineering (London), June 5, 1931. v. 131: 737–738. TA1.E55, v. 131.

Evans, J. G., jr. Industrial rationalization. Social forces, Oct. 1930, v. 9: 119–120. HN51.J6, v. 9.

Fairchild, Fred Rogers. Elementary economics, by Fred Rogers Fairchild, Edgar Stevenson Furniss, Norman Sydney Buck, Rev. ed. New York, The Macmillan company, 1930. 2 v. HB171.5.F2, 1930.

"Rationalization": v. 1, p. 141–142.

Fairchild, I. J.:
Quality control of consumer commodities. A brief comparison of several systems of quality assurance. U. S. Bureau of standards. Commercial standards monthly, Apr. 1931, v. 7: 301–303. HD62.U3, v. 7.

Standardization and simplification. Plumbers trade journal, Dec. 1, 1929, v. 87: 14–16; Jan. 15, 1930, v. 88: 14–16. TH6101.P7, v. 87, 88.

Standardization—should it be feared or fostered? An examination of the principles of standardization, as applied in nature points the way. U. S. Bureau of Standards. Commercial Standards Monthly, July, 1930, 7: 20–21. HD62.U3, v. 7.

Fenn, Louis Anderson. Rationalisation and the scientific worker. Scientific worker, Jan.–Feb. 1930, v. 6: 5–7. Q1.S84, v. 6.

Filene, A. Lincoln. Merchant looks at stabilization. Survey, Feb. 1, 1931, v. 65: 490–492. HV1.C4, v. 65.

Deals with simplification in industry.

Filene, Edward A. Increasing the purchasing power of the consumer. Marketing research and mass distribution necessary to maintain mass production. U. S. Bureau of standards. Commercial standards monthly, Sept. 1931, v. 8. HD62.U3, v. 7, p. 87.

Flucke, F. Normung und Vertrieb. Maschinenbau, Jan. 15, 1931, v. 10: W20–W23.

Fourgeaud, André. Die syndikale Republik. Europäische Revue, Oct. 1930, v. 6: 771–785. AP30.E8, v. 6.

With reference in part to rationalization.

Freund, Hans. Arbeitsvorbereitung. Vereines deutscher Ingenieure, Berlin. Zeitschrift, Jan. 24, 1931, v. 75: 107–111. TA3.V5, v. 75.

Fry, W. B. Detailed specifications adopted by the Indian service. Use of definite specifications has resulted in a closer understanding between various industries and Indian service. U. S. Bureau of standards. Commercial standards monthly, June, 1931, v. 7: 385–386. HD62.U3, v. 7.

Fuchs, E. Die russische Industrie-Organisation. Berlin, Julius Springer, 1931. 102 p. (Industriewirtschaftliche Abhandlungen, herausg. von. G. Briefs and W. Prion. Hft. 3.)

Gage, William R. Indexing manufacturers in California. Up-to-date central information bureau to serve as buyers' guide. U. S. Bureau of standards. Commercial standards monthly, Aug. 1931, v. 8: HD62.U3, v. 7, p. 51.

Gaillard, John:
International unification of standard fits. A résumé of the historical background and efforts to unify existing national systems of fits between cylindrical parts. Mechanical engineering, Oct. 1930, v. 52: 905–910. TJ1.A72, v. 52.

With special reference to the development of the German national system.

The Paris conference of the International standards association. American standards association. Bulletin, Sept. 1930, no. 53: 3–13.

A report on the purpose of the International standards association and results of technical conferences.

Ganzenhuber, E. Normung und Psychotechnik. Maschinenbau, Apr. 2, 1931, v. 10: 250–252.

A study of the importance of arranging terminology, symbols, and code markings of materials according to a definite plan, in order to eliminate unnecessary thinking and reduce sources of errors.

Gemmill, Paul Fleming. The economics of American business; a study of economic principles in modern business practice. New York and London, Harper & brothers 1931. xii, 489 p. HB171.5.G4, 1931.

"Under the title Fundamentals of economics, this material has been used as a text with students in business courses."—Pref.
See index under Standardization.

German industry and trade: a review of conditions in 1929–1930. Electrical review (London), Nov. 21, 1930, v. 107: 880–881. TK1.E44, v. 107.

"Rationalisation and prices": p. 880.

Gez, E. L. Die Standardisierung in Finnland. Ost-Europa-Markt, Jan. 1, 1931, v. 11: 103.

Gez, Th. B. Zur Rationalisierungsfrage. Zentralblatt der Christlichen gewerkschaften Deutschlands (Berlin), June 1, 1931, v. 31: 161–163.

Gilbreth, Lillian M. The World engineering congress in Tokyo as seen through American and Japanese eyes. Taylor society. Bulletin, Feb. 1930, v. 15: 39–43. T58.A2T3, v. 15.

Gonzenbach, Wilhelm von. Rationalisierung und Mensch. Zurich, Genossenschaftsbuchh. in Komm., 1930. 40 p. (Gewerkschaftliche Schriften, no. 2)

Good, P. Electrical standardization, 1929–1930. Institution of electrical engineers (London). Journal, Mar. 1931, v. 69: 404–413. TK1.I4, v. 69.

Goudriaan, J. Rationalisatie in particuliere en in overheidsbedrijven. Amsterdam, Marck, 1930. 29 p.

Gras, Norman Scott Brien. Industrial evolution. Cambridge, Mass., Harvard university press, 1930. 6 p. l., 259 p. T15.G7.

Consult index under Standardization in industry.

Graux, L. Introduction à la normalisation nationale des ajustements. Génie civil, Aug. 23–30, 1930, v. 97: 179–181. TA2.G3, v. 97.

Gt. Brit. Dept. of overseas trade. Economic conditions in Japan. Report by G. B. Sansom and H. A. Macrae. London, Published by H. M. Stationery off., 1930. 98 p. HC461.G72, 1930.

Comments upon rationalization: p. 15.

Gregory, T. E.:
Rationalisation and its effects. London Times, Sept. 9, 1930, p. 7.

Rationalization and technological unemployment. Economic journal, Dec. 1930, v. 40: 551–561. HB1.E3, v. 40.

See also Electrical review (London), Sept. 12, 1930, v. 107; 439–440. TK1.E44, v. 107.

Grin'ko, Grigoriĭ Fedorovich. The five-year plan of the Soviet union, a political interpretation by G. T. Grinko, vice-chairman, State planning commission of the U. S. S. R. New York, International publishers, 1930. 339 p. HC335.G75.

"Socialist rationalization and the workers": p. 119–134.

Hacker, Barbara. A munka produktivitása és intenzitása. Szocializmus, July, 1930, v. 20: 208–217.

Discusses different rationalizing systems.

Hamilton, Douglas T. Standard v. special machines. Suitable fixtures often eliminate the necessity for single-purpose machines without sacrificing production savings. American machinist, July 9, 1931, v. 75: 53–56. TJ1.A5, v. 75.

Includes a general discussion of the subject.

Hantos, Elemér:

Die Kooperation der Notenbanken als Mittel der Rationalisierung der Weltwirtschaft. Tübingen, Verlag von J. C. B. Mohr, 1931. 116 p.

Die Rationalisierung der Weltwirtschaft. Tübingen, Mohr, 1930. 47 p. (Recht und staat in Geschichte und Gegenwart 71.) HD45.H3.

"Der erste teil dieser schrift enthält den vortrag, den verfasser auf einladung der Gesellschaft österreichischer volkswirte in Wien am 3. dezember 1929 unter gleichem titel gehalten hat."

Contents.—Die rationalisierung der weltwirtschaft.—Die rationalisierung der Europa-wirtschaft.

Hanumantha, C. V. Rao. Rationalization: its meaning and application. Mysore economic journal, Jan. 1931, v. 17: 14–17.

Deals with rationalization in India.

Hasa, Professor. Rationalisation in Czechoslovakia. Industrial and labour information, Aug. 11, 1930, v. 35: 206–207. HD4811.I62, v. 35.

Haynes, R. Are we becoming robots? Saturday review (London), May 2, 1931, v. 151: 637–638. AP4.S3, v. 151.

Hebblewhite, W. Rayner. The Standards association of Australia. Organization receives support of the government; technical work carried on in two divisions, namely, standards and simplified practice. U. S. Bureau of standards. Commercial standards monthly, Mar. 1931, v. 7: 278–279. HD62.U3, v. 7.

Heinig, Kurt. Konzentration, Rationalisierung- und Arbeitslosigkeit? Volkwirtschaftliche Rundschau, Oct. 17, 1930, v. 7: 29–32.

Hellmund, R. E. Experiences and suggestions relating to preferred-number system. Desirability of adopting a supplementary fractional system of preferred numbers—possible technical difficulties in applying a preferred-number system—cases for standardization presenting no particular technical difficulties. Mechanical engineering, Apr. 1931, v. 53: 284–288. TJ1.A72, v. 53.

Henkel, Ernst. Zum Problem der Rationalität der Rationalisierung. Berlin, 1931?

Reviewed by H. Lufft in Deutsche Oekonomist, March 13, 1931, v. 49: 467. HG17.D4, v. 49.

Hentsch, Aloys. Swiss societies devoted to scientific management. American society of mechanical engineers. Transactions (Management), Jan.–Apr., 1931, v. 53: 11–12. TJ1.A7, v. 53.

Includes discussion of standardization agencies.

Herfeldt, Eberhard. Rationalisierungsorganisationen in der Weltwirtschaft. Deutsche Oekonomist, Oct. 16, 1930, v. 48: 1436–1438. HG17.D4, v. 48.

Hess, R. E. The development of standards for materials by the American society for testing materials outlined step by step. U. S. Bureau of standards. Commercial standards monthly, June, 1921, v. 7: 387–388. HD62.U3, v. 7.

Higashiura, Shoji. [The rationalization movement in Japan, and agriculture.] Article in Japanese. Nogyokeizai kenkyu, July, 1930, v. 6: 9–35.

Abstract by S. Nasu in Social science abstracts, Feb. 1931, v. 3: 234.

Higgins, W. G. Standardization cuts supply costs. System, Dec. 1930, v. 58: 487–488. HF5001.S9, v. 58.

Hill, A. B. Unemployment and rationalisation. Accountants' journal, Oct. 1930, v. 48:373–382.

Himmer, J. G. Elemente einer universalistischen Rationalisierung. Nationalwirtschaft, 1930, v. 3, no. 5–6:517–539. HB5.N3, v. 3.

Hinnenthal, H. The "Reichskuratorium fuer Wirtschaftlichkeit" (RKW). German organization receives its financial support from the government, but is rather independent in its function. U. S. Bureau of standards. Commercial standards monthly, Nov. 1930, v. 7:155–156. HD62.U3, v. 7.

Hobson, John Atkinson:
Rationalisation and unemployment; an economic dilemma. London, G. Allen & Unwin (ltd.), 1930. 126 p. HB171.H663.

Reviewed in Industrial psychology, Apr. 1931, v. 5, p. 352.

The State as an organ of rationalisation. Political quarterly, Jan. 1931, v. 2:30–45.

Wealth and life; a study in values. London, Macmillan & co., limited, 1929. xxxi, 489 p. HB171.H66.

See index under Standardisation.

Hornung, Heinz. Freigewerkschaftliche Rationalisierungs und Betriebspolitik. Gewerkschafts-Archiv (Jena), Nov. 1930, v. 13:257-262.

Hotz, Edgar. Handwerk und Normung. Deutsches Handwerksblatt, Oct. 15, 1930, v. 24:383–387.

Hubbard, Henry D.:
Publications of the National Bureau of standards. Printed results of research and standardization distributed the world over. U. S. Bureau of standards. Commercial standards monthly, May, 1931, v. 7:353–354. HD62.U3, v. 7.

What the National Bureau of Standards has done in research for the printing industries. U. S. Bureau of standards. Commercial standards monthly, Feb. 1931, v. 7:238–240. HD62.U3, v. 7.

Huber-Ruf, A. International federation of national standardising associations. (In World engineering congress. 1st. Tokyo, 1929. Tokyo, 1931. vol. 2, p. 21–27.)

Describes the international standardization work of the organization.

Hutchinson, Paul. The United states of Europe. Chicago, New York, Willett, Clark & Colby, 1929. 7 p. l., 225 p. HF1531.H8.

"Rationalization's logical conclusion": ch. 5.

Immich, W. Praktische Normungsarbeit. Einfuehrung der Normen, erlaeutert an Beispielen aus der Praxis. Maschinenbau, Feb. 6, 1930, v. 9:77–81.

Deals with the work of the German standards introduction committee (Einfuehrungsausschuss) and the value of its sessions to standardization. Examples of standardization work are given.

International industrial relations association. Rational organization and industrial relations; a symposium of views from management, labour and the social sciences, contributed to the 1929 I. R. I. discussion meeting on the subject of human relations in a rationally organized industry, published by the International industrial relations association. M. L. Fleddérus, editor. The Hague, 1930. 279 p. HD6961.I58, 1929.

Chiefly in English with some contributions in French and German.

International management institute. Bulletin. Geneva, 1927–29. 2 v. in 1. T58.A2I852.

Published in English, French, and German. Contains much material on the subject of standardization in its various aspects.

International standards association conferences in Paris. Mechanical engineering, Oct. 1930, v. 52:932–933. TJ1.A72, v. 52.

Discusses a series of technical conferences held in Paris, May, 1930, under the auspices of the International standards association, a federation of 18 national standardizing bodies.

Italian standardizing society formed. New organization known as "UNI." [Ente nazionale per l'unificazione delle industrie]. U. S. Bureau of standards. Commercial standards monthly, Nov. 1930, v. 7: 136. HD62.U3, v. 7.

Johnston, G. A. Rationalisation and industrial relations. International labour review (Geneva), Nov. 1929, v. 20: 621–640. HD4811.I65, v. 20.

Jones, T. R. Engineering and shop standardization. New York, American management association, 1931. 12 p.

Judd, A. J. Statement of progress of the Mechanical standards advisory council presented to the American standards council. Mechanical engineering, May, 1930, v. 52: 552. TJ1.A72, v. 52.

Juhász, Karl Eugen. Az ipar és kereskedelem gazdaági hatásfokának növelése az Egyesült llamokban és hazai lehetöségeink. Közazdasági szemle, Oct. 1930, v. 75: 713–734.

Abstract by Peter Frankl in Social science abstracts, May, 1931, v. 3: 689. H1.S6, v. 3.

Karabasz, Victor S. Maintenance standards; some conclusions concerning maintenance practices based on a number of plant inspections. Taylor society. Bulletin, Dec. 1930, v. 15: 271–280. Discussion: p. 280–286. T58.A2T3, v. 15.

Karpinski, F. Zweckmässige Vorrichtungsnormen. Vereines deutscher Ingenieure (Berlin.) Zeitschrift, Nov. 8, 1930, v. 74: 1545–1547. TA3.V5, v. 74.

Kelemen, Moritz. Egy lépés a racionalizálás utján. Magyar gyáripar, Oct. 1930, v. 21: 4–5.

Reviewed by Andreas Neményi in Social science abstracts, June, 1931, v. 3, p. 858. H1.S6, v. 3.

Kennedy, Malcolm Duncan. The changing fabric of Japan. London, Constable & Co., (Ltd.), 1930. vii, 282 p. DS885.K4.

Mention of rationalisation: p. 248.

Kienzle, O. Normung und Fortschritt. Sparwirtschaft, Oct. 1930, v. 8: 461–466.

A general review of the advantages of proper standardization methods, with particular regard to developments in Austria; specific examples illustrate benefits to various industries.

King, W. Rationalization and the textile industry. Textile world, Aug. 30, 1930, v. 78: 978–979. TS1300.T36, v. 78.

Kisselev, V. Union of socialist soviet republics 1931 standardization program. U. S. Bureau of standards. Commercial standards monthly, Sept. 1931, v. 8: 67–69. HD62.U3, v. 8.

Klein, Julius. "Saved by simplicity." Simplified practice is a rational, appealing, carefully devised plan to save money and promote good business. U. S. Bureau of standards. Commercial standards monthly, July, 1931, v. 8: 3–5. HD62.U3, v. 8.

Klug, Franz. Verteidigung der Rationalisierung. Deutsche Arbeit (Berlin), Apr. 1931, v. 16: 169–174.

Koehler, A. W. Uniform traffic laws. National conference on street and highway safety urges cities and towns to adopt uniform ordinance for protection of motorists and pedestrians. U. S. Bureau of standards. Commercial standards monthly Sept. 1931, v. 8: HD62.U3, v. 8.

Koehler, Walther. Die Grenzen der Rationalisierung. Stimmen der Zeit, May, 1931, v. 61: 113–119.

Konishi, Shoji. On engineering standardization in Japan. (In World engineering congress. 1st. Tokyo, 1929. Tokyo, 1931. vol. 2, p. 63–77.)

An historical discussion.

Lacoin, Maurice, *and others*. Rationalisation. Paris, Comité national d'études sociales et politiques, 1930. 30 p.

Lavergne, de. L'organisation rationelle du travail. Revue politique et parlementaire, Jan. 1930, v. 142: 31–35. H3.R4, v. 142.

Le Courte, Walter. Mechanisierungsgefahren in der Betriebsorganisation. Welt des Kaufmanns, Feb. 1931, v. 12: 142–150.

Lee, John. Pitman's dictionary of industrial administration; a comprehensive encyclopaedia of the organization, administration, and management of modern industry. London, New York, etc. Sir I. Pitman & Sons (Ltd.), 1928–29. 2V.HD19.L4.

"Rationalization," v. 2, p. 715–717; "Standardization," p. 838–841.

Lehmann, M. R. Rationalisierung und Sozialpolitik. Nürnberg, Krische & co., 1930. 19 p.

Leipart, Theodore. Trade unions and rationalisation. Industrial and labour information, May 11, 1931, v. 38: 191–192. HD4811.I62, v. 38.

Also published in German in Gewerkschafts-Zeitung, Mar. 28, 1931, v. 41: 193–195.

Le Maistre, C.:
The effects of standardization in industry. Chemical age (London), Feb. 7, 1931, v. 24: 118–119. TP1.C33, v. 24.

Argues that standardization is an important factor in diminishing industrial depression.

Standardization; its economic effect on engineering progress. Electrical review (London), Feb. 27, 1931, v. 108: 372–373. TK1.E44, v. 108.

See also Belfast chamber of commerce. Journal, Mar. 1931, p. 16–17.
Discusses the question of American standardization policies and their application to British industry.

Littlehales, G. W. International hydrographic bureau. Monaco common meeting ground for comparison of publications, instruments, and methods of hydrographic surveying. U. S. Bureau of standards. Commercial standards monthly, Sept. 1931, v. 8: HD62.U3, v. 8.

Lytle, Charles W., *and others.* Progress in industrial management. Mechanical engineering, Jan. 1931, v. 53: 10–14. TJ1.A72, v. 53.

With reference in part to standardization activities.

McAllister, A. S.:
Aid in identifying quality in household commodities. Outlines of plans for aiding consumers in obtaining qualities called for by nationally recognized commodity specifications. U. S. Bureau of standards. Commercial standards monthly, Nov. 1930, v. 7: 131–132. HD62.U3, v. 7.

The National Bureau of Standards and its cooperation with industry. Governmental and nongovernmental organizations cooperate with Bureau unofficially, semiofficially, and officially. U. S. Bureau of standards. Commercial standards monthly, Sept. 1931, v. 8: 81–83. HD62.U3, v. 8.

McClellan, William, and R. H. Barclay. Standardization in transport of electrical energy. Development of standards in the electrical field made possible through the cooperative efforts of the industry. U. S. Bureau of standards. Commercial standards monthly, Aug. 1931, v. 8: 48–49. HD62.U3, v. 8.

MacGregor, D. H., *and others.* The problems of rationalisation: a discussion. Economic journal (London), Sept. 1930, v. 40: 351–368. HB1.E3, v. 40.

McKenzie, B. Stuart:
Canada's viewpoint on standardization and simplification in industry. American standards association. Bulletin, No. 1930, no. 55: 13–14.

Standardization movement in Canada. Cooperative policy of Canadian engineering standards association with industrial representatives aids solution of various industrial problems. U. S. Bureau of standards. Commercial standards monthly, Mar. 1931, v. 7: 284–285. HD62.U3, v. 7.

Marquand, Hilary Adair. The dynamics of industrial combination. London, New York, etc. Longmans, Green & co., 1931. viii, 206 p. HD2731.M35.

A study of conditions in Great Britain and the United States.
Standardization: p. 165–168; Rationalisation: p. 190–195. See also index.

Mars, Hans. Rationalisierung—Fehlrationalisierung. Arbeit und Wirtschaft (Wien), June 15, 1931, v. 9: 469–476.

Martin, Percival William. The problem of maintaining purchasing power; a study of industrial depression and recovery ... London, P. S. King & son (ltd.), 1931. xiv, 314 p. HD61.M3.

Rationalisation: p. 238–239, 264.

Martino, R. A. Making standards effective. Compilation of plans of various agencies to encourage the use of specifications and standards. U. S. Bureau of standards. Commercial standards monthly, Jan. 1931, v. 7: 221–227. HD62.U3, v. 7.

Mason, Edward S. Saint-Simonism and the rationalisation of industry. Quarterly journal of economics, Aug. 1931, v. 45: 640–683. HB1.Q3, v. 45.

Mataja, Viktor. Lehrbuch der volkswirtschaftspolitik, mit beiträgen von dr. Paul Abel, dr. Ludwig Adamovich u. a. hrsg. von dr. Viktor Mataja. Wien, Österreichische staatsdruckerei, 1931. ix, 850 p. HD84.M3.

See index under Normung; Rationalisierung.

Mauro, F. The movement for rationalization in Europe. (In World engineering congress. 1st. Tokyo, 1929. Tokyo, 1931. vol. 38, p. 35–48.)

Maxwell, Herbert. Rationalisation is sought in Japan. Virtually same as "deflation." Considerable opposition develops. Journal of commerce, Feb. 2, 1931, p. 28.

Mayr, Franz X. Rationalisierung der Maschine Mensch. Wien, Braumüller, 1931. 86 p.

Meakin, M. W. The international aspect of rationalisation. Royal institute of international affairs. Journal, Jan. 1930, v. 9: 79–89. JX31.R6, v. 9.

Mechanisierung in der schweizerischen Industrie. Gewerkschaftliche Rundschau(Bern), May, 1931, v. 23: 160–163.

"Meddelelse fra Standardiseringskømmission." Published in each issue of the Magazine Ingeniøren. TA4.I41.

Mehrtens, John. German foundrymen work on standardization. Foundry, Feb. 1, 1931, v. 59: 76–77. TS200.F7, v. 59.

With special reference to specifications.

Mendelson, Maurice. The industrialization of Russia. Current history, Jan. 1931, v. 33: 481–492. D501.N5, v. 33.

With reference in part to rationalization of industry.

Menken, Jules. Rational control in British industry. Manchester guardian commercial, Jan. 30, 1930, v. 20: 119. AP4.M25, v. 20.

Der Mensch und die Rationalisierung. I. Fragen der Arbeits und Berufsauslese, der Berufsausbildung und Bestgestaltung der Arbeit. Jena, Gustav Fischer Verlag, 1931. 370 p.

Meriel-Bussy, H. La normalisation française. Arts et métiers, Nov. 1930, v. 83: 453–456. T2.S673, v. 83.

Deals with the history and development of standardization in France.

Mr. Thomas and trade realities. Spectator (London), Jan. 18, 1930, v. 299: 76–77. AP4.S7, v. 299.

Deals with rationalization in England.

Mitljanskij, J. Die Normierung des Verbrauchs und das Problem der Warenlager. Planovoje chozjajstvo (Moscow), Feb. 1930, v. 2: 105–117.

Moore, Herbert Fisher. Text-book of the materials of engineering. 4th ed. New York, etc., McGraw-Hill book co. (Inc.), 1930. xiv, 409 p. TA403.M7, 1930.

"Selected references for further study" at end of most of the chapters. "Specifications for materials": p. 347–384.

Müller, Paul. Wesen und Grenzen der Rationalisierung. Berlin, Carl Heymanns Verlag, 1931. 121 p.

Myers, Herbert J., *and others.* How to set standards; Jordan prize competition, by Herbert J. Myers, William L. Keating, and J. C. Metsch. New York City, National association of cost accountants, 1931, 98 p. HD62.M8.

Contains the three prize winning essays of a competition open to members of the National association of cost accountants.

National conference on weights and measures. Report of the twenty-third national conference on weights and measures, held at the Bureau of Standards, Washington, D. C., June 3, 4, 5, and 6, 1930. Washington, U. S. Govt. print. off., 1931. 152 p. (U. S. Bureau of Standards. Miscellaneous publications, no. 116.) QC100.U57, no. 116.

National industrial conference board. Rationalization of German industry. New York, National industrial conference board, inc., 1931. xv, 182 p. HC286.3.N25.

Needham, W. R. Trends in buying stimulate standardization. American machinist, Oct. 20, 1930, v. 73 : 664. TJ1.A5, v. 73.

Neuhaus, F. A. E. Die Normung in Deutschland. (In World engineering congress. 1st. Tokyo, 1929. Tokyo, 1931. vol. 2, p. 45–62.)

Discusses the development of standardization in Germany, and gives examples of its applications.

New international association for testing materials. First international congress, Zurich, Switzerland, September 6–12, 1931: announcement, May, 1931. 21 p. Noted in the Bulletin of the Public Affairs Information Service, Aug. 15, 1931, v. 17, no. 39 : 13. Z7163.P9, v. 17.

New magazine on Russian standardization. Russian standardization is receiving active encouragement from a new monthly publication, Standard, the first issue of which appeared in January of this year. U. S. Bureau of standards. Commercial standards monthly, July, 1931, v. 8 : 25. HD62.U3, v. 8.

New Swedish standards established. U. S. Bureau of standards. Commercial standards monthly, Mar. 1931, v. 7 : 298. HD62.U3, v. 7.

New way in industry. An analysis of rationalization. London, Times Publishing Co., 1930. 22 p. Reprinted from the "Times."

New Zealand may adopt British standards. U. S. Bureau of standards. Commercial standards monthly, Jan. 1931, v. 7 : 212. HD62.U3, v. 7.

Nisbet, James Wilkie. A case for laissez-faire. London, P. S. King & Son (Ltd.), 1929. vii, 245 p. HB95.N5.

See index under Rationalisation.

Normalización industrial. Influencia que ejerce la normalización en el desarrollo del comercio, ayudando a la competencia fundada en el valor intrínsico de los productos industriales. Ingeniería internacional, Oct. 1930, v. 18 : 492. TA4.I28, v. 18.

Norwegian standards committee submits proposals for standardization. U. S. Bureau of standards. Commercial standards monthly, Jan. 1931, v. 7 : 228. HD62.U3, v. 7.

Olivetti, Gino. Die italienische Bewegung zur Standardisierung der Industrie. Camera di commercio italiana per la Germania. Bollettino, Jan.–Feb. 1931, v. 3 : 6–8.

Olk, Friedrich. Zu teuer rationalisiert! Arbeit (Berlin), Nov. 1930, v. 7 : 733–737. HD4809.A5, v. 7.

Orchard, John Ewing. Japan's economic position; the progress of industrialization, by John E. Orchard with the collaboration of Dorothy Johnson Orchard. New York, Whittlesey house, McGraw-Hill book co. (Inc.), 1930. xvi, 504 p. HC462.O7.

"Prepared under the auspices of the council for research in the social sciences of Columbia University."
See index under Rationalization.

Orr, John. Standardization movement in South Africa. Movement has cooperation from all interested elements. U. S. Bureau of standards. Commercial standards monthly, Oct. 1930, v. 7 : 117. HD62.U3, v. 7.

Osborne, H. S. Fundamentals of standardization in practice. Mechanical engineering, Nov. 1931, v. 53 : 843. TJ1A72, v. 53.

Overgaard, Ch. Arbijderne og Rationaliseringen Nationaløkonomisk tidsskrift for samfundsspørgsmaal økonomi og handel (Copenhagen), 1930, v. 68, no. 4; 342–359.

Papernov, Z. A. The fourth year of the Soviet standardization program. American standards association. Bulletin, Oct. 1930, no. 54: 14–15.

Deals with the accomplishments of Soviet standardization agencies, and some of the difficulties encountered. Translated abstract from Vestnik standardizatziyi, Feb., 1930.

Payne, Frederick H. American industries play part in national defense. Standard items of everyday use provided for in war plans, involving 15,000 factories. U. S. Bureau of standards. Commercial standards monthly, Aug. 1931, v. 8: 46–47. HD62.U3, v. 8.

Penazzo. Francesco. Il ragioniere nel fascismo e nella legislazione fascista. Monografia presentata e trad. in inglese, tedesco e francese al Congresso int. dei ragioniere in New-York, settembre 1929. Milano, Taveggia, 1930. 22 p.

Person, Harlow S.:
The new challenge to scientific management. Can the principles of planning and control be applied over a wider area than the individual enterprise? Taylor society. Bulletin, Apr. 1931, v. 16: 62–63. T58.A2T3, v. 16.

Discussion: p. 64–74. With reference in part to standardization.

Standardization and its relation to scientific management. U. S. Bureau of standards. Commercial standards monthly, Sept. 1931, v. 8: 94–95. HD62.U3, v. 8.

Platte, T. H. Factors in the elimination of distribution waste, with discussion. Taylor society. Bulletin, Feb. 1931, v. 16: 2–18. T58.A2T3, v. 16.

Polakov, Walter N. Management in the United States of Soviet Russia. American society of mechanical engineers. Transactions (Management), Jan.-Apr. 1931, v. 53: 10–11. TJ1.A7, v. 53.

With some reference to the Russian Rationalization bureau.

Porritt, B. D. Some aspects of standardization. Society of chemical industry (London). Journal (Chem. & ind.) Oct. 10, 1930, v. 49: 849. TP1.S6, v. 49.

Deals with simplification, and practical use of specifications.

Prelinger, Wolfgang. Arbeitsgestaltung im Büro. Stuttgart, Poeschel, 1931. 236 p.

Problems of rationalisation. Statist, Dec. 13, 1930, v. 116: 977. HG11.S8, v. 116.

Argues that rationalisation is so frequently put forward as a panacea for industrial ills that it is necessary to emphasize certain difficulties and dangers which are inherent in the process.

Progress on international standards of light and electricity. Franklin institute. Journal, Jan. 1931, v. 211: 109–113. T1.F8, v. 211.

Progress toward standardization. American machinist, Jan. 8, 1931, v. 74: 68. TJ1.A5, v. 74.

Projected new rationalisation organization in Japan [Rationalisation bureau in the Department of commerce and industry]. Japan weekly chronicle, Sept. 25, 1930, no. 1499: 381. AP8.J3, no. 1499.

Pyle, John Freeman. Marketing principles, organization and policies. New York and London, McGraw-Hill Book Co., (Inc.), 1931. xiii, 565 p. HF5415.P9.

"References" at end of each chapter.
"Standards of marketing efficiency": p. 513–544.

Rationalisation and unemployment. Economist (London), Sept. 13, 1930, v. 111: 473–474. HG11.E2, v. 111.

Rationalisierung und Arbeit-Freizeit. Internationales Rationalisierungs-Institut. Mitteilungen, Dec. 1930, v. 4: 269–271.

Rationalisierung und Weltwirtschaftskrise:
Internationales Rationalisierungs-Institut. Mitteilungen, Feb. 1931, v. 5: 25–29.

Einige Kapitel über der Wessen, der bisherigen Verlauf und gegenwärt. Stand der Kapitalist. Rationalisierung in Deutschland. Verant. für der Inh. und Verl: Hermann Remmele. Berlin, Int. Arbeiter–Verl., 1930. 44 p.

Rationalization in Soviet industry. Economic review of the Soviet union, Feb. 1, 1931, v. 6: 59–62. HC331.E3, v. 6.

Rationalized management in Austria. American machinist, Oct. 30, 1930, v. 73: 690. TJ1.A5, v. 73.

Raymond, Fairfield Eager. Quantity and economy in manufacture. New York and London, McGraw-Hill Book Co. (Inc.), 1931. xiii, 375 p. TS155.R35.

See index under Simplification.

Les règles générales suivies par les organismes français de normalisation pour assurer l'homogénéite de leurs normes. Revue générale de l'electricité, Sept. 6, 1930, v. 28: 375–379. TK2.R35, v. 28.

Renard, G. A. Value of purchase specifications. Surface only scratched in the development of specifications. U. S. Bureau of standards. Commercial standards monthly, Apr. 1931, v. 7: 323–324. HD62.U3, v. 7.

Research in industry and rationalisation. Electrical review, June 5, 1931, v. 108: 954. TK1.E44, v. 108.

Comments upon a paper on Swedish conditions read by Axel F. Enstrom before the Society of Swedish engineers in Great Britain.

Riccius, K. Foerderung der Normungsarbeit durch die wirtschaftlichen Verbaende. Maschinenbau, Feb. 6, 1930, v. 9: 99–100.

Argues that economic associations consisting of concerns rather than individuals are more competent to promote standardization work.

Richardson, G. M. Purchasing by specification. Since interpretation is a broad and variable factor, purchase specifications must be clearly defined to avoid confusion. U. S. Bureau of standards. Commercial standards monthly, Sept. 1931, v. 8: 78–80. HD62.U3, v. 8.

Ross, Colin. The fruits of rationalization. Living age, Apr. 1931, v. 340: 146–150. AP2.L65, v. 340.

Translation of an article in Geopolitik, Berlin, a political and scientific monthly.

Rowe, L. S. Pan American conference to be held October 5 to 12, 1931, featuring standardization of commodities. U. S. Bureau of standards. Commercial standards monthly, May, 1931, v. 7: 350–351. HD62.U3, v. 7.

Ruiz Almansa, Javier. La politica de racionalización en las naciones modernas. Asociación del trabajo (Buenos Aires). Boletin, Sept. 20, Oct. 5, 1929, no. 232: 419–422; no. 233: 449–451.

Russia pins much faith on profit from waste elimination by standardization. Steel, v. 89, July 16, 1931: 27. TS300.I745, v. 89.

Sander, A. Die Normung. Chemische Fabrik, Nov. 12–19, 1930, p. 460–461; 472–473.

Saur, K. Die Rationalisierung der Produktionsmethoden und ihre gesellenschaftsbiologischen Wirkungen. Archiv für Rassen und Gesellschafts-Biologie, Feb. 25, 1931, v. 23: 374–405. HM5.A7, v. 23.

Schneider, Theo. Organische Rationalisierung und Fliessarbeitsreform. Evangelisch-Sozial, Jan.-Mar., 1913, v. 36: 19–29.

Schubert, Ulrich. Sinn und Möglichkeiten der Bildung von Beschäftigungsgraden. Zeitschrift für Betriebswirtschaft (Berlin), May, 1931, v. 8: 321–346.

Seventy-five Jahre Verein deutscher Ingenieure. Elektrotechnische Zeitschrift, May 7, 1931, v. 52: 608. TK3.E8, v. 52.

Mentions its standardization activities.

Sherrill, W. J. Accomplishments of the American standards association. Annual résumé of the activities of the association during 1930. U. S. Bureau of standards. Commercial standards monthly, Jan. 1931, v. 7: 195–196. HD62.U3, v. 7.

Shields, Bernard Francis. The evolution of industrial organization. 2d edition. London, Sir Isaac Pitman and sons, 1930. 414 p.

Includes a discussion of rationalization policies in various foreign countries.

Siegel, B. Approaching an ideal specification. Commodity acceptance testing should comply with specification requirements. U. S. Bureau of standards. Commercial standards monthly, Aug. 1931, v. 8:56. HD62.U3, v. 8.

Siegel, Otto. Mensch und Arbeit. Eine Berliner Diskussionskonferenz über das Rationalisierungsproblem. Zeitschrift für Betriebswirtschaft (Berlin), May, 1931, v. 8:390–395.

Simplified practice aided through cooperative action by industry. U. S. Bureau of standards. Commercial standards monthly, Sept. 1931, v. 8:77. HD62.U3, v. 8.

Simplified practice codes not under suspicion. Business week, Apr. 22, 1931, p. 10. HF5001.S9.

Simplified practice in the South and Southwest. U. S. Bureau of standards. Commercial standards monthly, May, 1931, v. 7:345. HD62.U3, v. 7.

Sisson, W. The development of standardization. (In Institution of mechanical engineers. Proceedings, 1930. London, 1930. p. 787–792.) TJ1.I5, 1930.

Discusses the meaning of standardization, and the development of various standards.

The situation in Japan. The serious effects of the world depression lead to economy measures and reduced imports. Electrical review (London), Oct. 24, 1931, v. 107:704. TK1.E44, v. 107.

Mentions that some critically minded industrialists apprehend that rationalisation of industry may tend to increased unemployment.

Skinner, C. E.:

Standardization. Association of Chinese and American engineers. Journal, Jan. 1930, v. 11:27–44. TA4.A87, v. 11.

General discussion of principles and progress, with special reference to the United States.

Standardization. (In World engineering congress. 1st. Tokyo, 1929. Tokyo, 1931. vol. 2, p. 29–43.)

Deals with the history and progress of standardization.

Slater, Gilbert. Poverty and the state. London, Constable & Co. (Ltd.), 1930. vii p., 1 l., 480 p. HV245.S6.

"Rationalisation": p. 407–413.

Smith, Douglas Hector. Economics of Empire trade. London, G. Routledge & Sons (Ltd.), 1930. viii, 160 p. Bibliography: p. 156. HF3506.S65.

"Simplifying the line": p. 185–196.

Smith, Edwin Seymour. Reducing seasonal unemployment; the experience of American manufacturing concerns. New York and London, McGraw-Hill book co. (Inc.), 1931. xvii, 296 p. HD5855.S6.

"A study made under the sponsorship of the Committee to study methods of reducing seasonal slumps: Henry S. Dennison, John H. Fahey, A. Lincoln Filene, Henry P. Kendall, J. Franklin McElwain."
Empire rationalization: p. 141, 145, 148, 153–155.

Smith, Ralph W. Tolerance and Tolerances. A discussion of permissible variations from weights and measures standards of value and performance. U. S. Bureau of standards. Commercial standards monthly Aug. 1931, v. 8:44–45. HD62.U3, v. 8.

Societies, research, standards grow internationally. Power, Jan. 6, 1931, v. 73:41. TJ1.P7, v. 73.

Society of automotive engineers. Handbook, 1931. New York, Society of automotive engineers, 1931. 750 p. TL151.S62, 1931.

Contains the current standards and recommended practices of the society, and the specifications now in force. Over 600 specifications are given.

Some economic and social aspects of rationalisation. Statist, Sept. 20, 1930, v. 116: 412. HG11.S8, v. 116.

Somerville, Henry. Britain's economic illness. London, Harding & More (Ltd.), 1931. 147 p. HC256.3.S57.

See index under Rationalization.

La standardisation. Belgium. Musée commercial. Bulletin commercial, Nov. 24, Dec. 1, 1930, v. 49: 3737–3739; 3809–3811.

Standardisation in industry. Nature (London), Jan. 24, 1931, v. 127: 117–119. Q1.N2, v. 127.

Standardization. Engineer (London), Oct. 31, 1930, v. 150, sup.: 145–146. TA1.E5, v. 150, sup.

Standardization—An aid to industrial progress. The Index, October, 1931, v. 11: 221–225.

Standardization a recognized means of stabilizing employment. Mechanical engineering, July, 1931, v. 53: 545–546. TJ1.A72, v. 53.

Standardization helps sales. American machinist, Oct. 16, 1930, v. 73: 638. TJ1.A5, v. 73.

Argues that standardization helps sales by making it easier for users to try new and improved equipment.

Standardization movement progress in France. Five committees report on their activities. U. S. Bureau of standards. Commercial standards monthly, Feb. 1931, v. 7: 253. HD62.U3, v. 7.

Standardization's importance. Factory and industrial management, Feb. 1931, v. 81: 259. TA1.E59, v. 81.

Points out that as an indication of the increased interest in standardization the 1930 sale of published standards was more than double that of any previous year.

Standards association of Australia. Simplified practice in Australia. Sydney, Standards association of Australia, 1930. 16 p. (Publication no. MP. 1, October, 1930.)

Deals with the objects and work of the Simplified practice division of the association.

State-wide simplification program. California State chamber of commerce actively engaged in the elimination of waste. U. S. Bureau of standards. Commercial standards monthly, May, 1931, v. 7: 334. HD62.U3, v. 7.

Steel-Maitland, Arthur. Rationalisation and the future of industry. Nineteenth century and after, Apr. 1931, v. 119: 391–402. AP4.N7, v. 119.

Stelter, Herbert. Rationalisierung und Umsatz. Zeitschrift für Betriebswirtschaft (Berlin), Aug. 1930, v. 7: 621–624.

Suhr, Otto. Das Reichskuratorium für Wirtschaftlichkeit. Arbeit (Berlin), July, 1930, v. 7: 454–464. HD4809.A5, v. 7.

Szeibert, Johann. A racionalizálás és a munkahiány. Munkaügyi szemle, Mar. 1930, v. 4: 93–99.

Takatsu, Kiyoshi. Electrical units and standards in Japan. (In World engineering congress. 1st. Tokyo, 1929. Tokyo, 1931, vol. 21, p. 313 ff.)

Tatsachen und Probleme der Rationalisierung. Gewerkschafts-Zeitung, Dec. 20, 1930, v. 40: 803–806.

Taylor society annual meeting. Technological unemployment, quality, standards, inspection and industrial code hold interest at three-day session in New York. Factory and industrial management, Jan. 1931, v. 81: 59–78. TA1.E59, v. 81.

Teyinck, J. A. Standardization favored in the Netherlands. Forty-three standardizing committees, representing 600 active members, keep pace with current activities. U. S. Bureau of standards. Commercial standards monthly, Apr. 1931, v. 7: 319. HD62.U3, v. 7.

Trade commission favors simplified practice. Iron age, Apr. 23, 1931, v. 127: 1381. T1.I7, v. 127.

States that the United States Federal trade commission has officially given its approval to simplified practice recommendations drawn up by members of an industry in cooperation with the Department of Commerce. The commission regards the work of the department in encouraging standardization as important and beneficial to the public.

Tremelloni, Roberto. Il mito dell'ora. Razionalizzazione. Rivista di politica economica (Rome), Feb. 28, 1931, v. 21: 143–149.

Trnka, Frantisek. Über den durch Unfälle verursachten üolkswirtshaftlichen Verlust. Prague, Tschechoslowak, Nationalkomitee fur wissenschaftliche Organisation, 1930. 36 p. (Veröff. d. tschechoslowak. Nationalkomitees f. wissenschaft Organisation, 1 a.)

Ueno, Yoiti. The scientific management discussions [at the World engineering congresses]. Taylor society. Bulletin, Feb. 1930, v. 15: 43–45. T58.A2T3, v. 15.

With reference in part to simplification and rationalization.

Union of socialist soviet republics expanding its standardization program. U. S. Bureau of standards. Commercial standards monthly, June, 1931, v. 7: 374. HD62.U3, v. 7.

U. S. Bureau of standards:

Annual report of the Director of the Bureau of Standards to the Secretary of Commerce for the fiscal year ended June 30, 1930, Washington, U. S. Govt. print. off., 1930. 53 p. (Miscellaneous publication no. 115.) QC100.U57, 1930, QC100.U57, no. 115.

Bureau of standards journal of research. Washington, U. S. Govt. print. off., 1930–31. QC1.U52.

Certification plan, significance and scope: its application to federal specifications and commercial standards. Washington, U. S. Govt. print. off., 1930, iv. 13 p. (Miscellaneous publication no. 105.) QC100.U57 no. 105, QC100.U58 1930.

Circular. Washington, U. S. Govt. print. off., 1930–1931. QC100.U555.

Commercial standards monthly. A review of progress in commercial standardization and simplification. 1930–31. Washington, U. S. Govt. print. off., 1930–31. HD62.U3.

Issued by the Bureau of standards as a multigraphed bulletin, April 12, 1925, to June, 1929; as a printed magazine, July, 1929—

Standards yearbook, 1931. Washington, U. S. Govt. print. off., 1931. 399 p. (Miscellaneous publication no. 119.) QC100.U576, 1929; QC100.U57, no. 119.

"Bibliography on standardization"; p. 363–376.

Supplementary list of publications of the Bureau of Standards (July 1, 1925, to February 28, 1930). Washington, U. S. Govt. print. off., 1930. 175 p. QC100.U562.

For all previous papers see Circular no. 24, 7th ed., June 30, 1925.

Technical news bulletin. Washington, U. S. Govt. print. off., 1931. T1.U45.

United States Government printing office, joins the American standards association. Mechanical engineering, Mar. 1931, v. 53: 228. TJ1.A72, v. 53.

Urwick, Lyndall:

European appraisals of "recent economic changes." A composite view. Taylor society. Bulletin, Feb. 1930, v. 15: 46–48. T58.A2T3, v. 15.

Rationalization is discussed.

Das Wesen der Rationalisierung. Aus. d Engl. übers. von Hans W. Nissen. Stuttgart, Poeschel, 1930. 131 p.

Library of Congress has 1929 English edition. HD45.U7.

Van Deventer, J. H. Developments and trends in standardized quality production. (In World engineering congress. 1st. Tokyo, 1929. Tokyo, 1931. Vol. 38, p. 19–34.)

Versatility plus standardization. American machinist, Mar. 26, 1931, v. 74: 528. TJ1.A5, v. 74.

Verunac, V. Le programme de rationalisation des établissements Bata. Schweizerische Zeitschrift für Betriebswirtschaft und Arbeitsgestaltung (Bern), 1931, v. 37: 88–93; 119–123.

Vogt, Richard. Der neue Markt. Standardartikel aus der industriellen Produktion. Ein Wirtschaftsber. Berlin, VDI-Verl., 1931. 110 p.

Wagemann, Ernst Friedrich. Economic rhythm, a theory of business cycles, by Ernst Wagemann. Translated by D. H. Blelloch, with a prefatory note by Wesley C. Mitchell. New York, McGraw-Hill Book Co. (Inc.), 1930. xvi, 287 p. HB3711.W28.

Rationalization: p. 249–250.

Walker, Louis Carlisle. The office and tomorrow's business; modern points of view on office organization and administration. New York, London, The Century Co., 1930. xi, 187 p. HF5547.W3.

"Simplification of office forms and records": p. 99–103.

Walker, P. H. Rationalization of industry. Accountant (London), Jan. 3, 1931, v. 84: 11–17. HF5601.A14, v. 84.

Warriner, Doreen. Combines and rationalisation in Germany. London, P. S. King & Son, (Ltd.), 1931. 224 p.

Weber, Max. Fragen der Rationalisierung. Zürich, Genossenschaftsbuchh. in Komm., 1930. 48 p. (Gewerkschaftliche Schriften 1.)

Webster, Harold A. Inspection of weights and measures necessary. Establishment of confidence in commercial world, through accurate weighing and measuring instruments, of primary importance to state and consumer. U. S. Bureau of standards. Commercial standards monthly Sept. 1931, v. 8: 94. HD62.U3, v. 8.

Willberg, A.:
Finnish standards association. Scope of association's functions reviewed. U. S. Bureau of standards. Commercial standards monthly, June, 1931, v. 7: 382–383. HD62.U3, v. 7.

Standardizing in Finland. Finlands bank, Helsingfors. Monthly bulletin, Nov. 1930, v. 11: 26–28. HC337.F5A4, v. 11.

Willeke, Eduard. Die Dauerarbeitslosigkeit und ihre Überwindung durch organische Rationalisierung. Jahrbücher für Nationalökonomie und Statistik, Sept. 1930, v. 133: 377–387. HB5.J3, v. 133.

Winschuh, Josef. Die Suggestion der Rationalisierung. Mehr Selbstbesinnung. Ring, Zeitschrift für künstlerische Kultur, Dec. 15, 1929, v. 2: 970–971.

Wirkung der Rationalisierung auf die Heimarbeit, Die. Erhebungen des Gewerkvereins der Heimarbeiterinnen. Reichsarbeitsblatt, Nov. 25, 1930, v. 10: 501–511. HD8441.A3, v. 10.

Wooton, Paul. Federal trade commission spikes nonstandardization rumor. American machinist, Apr. 30, 1931, v. 74: 706d. TJ1.A5, v. 74.

World engineering congress. 1st, Tokyo, 1929. Industrial Japan; a collection of papers by specialists on various branches of industry in Japan. [Tokyo, Kokusai shuppan insatsusha, International publishing & printing co.] 1929. 7 p. l., [3]–584 p. HC462.W6.

"Engineering standardization": p. 45–50.

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